GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-3 1.4391 (X3CrMnNiN20-9-6)

Standard Specification for Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resistant Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-3 1.4391 (X3CrMnNiN20-9-6) Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resistant Steels for General Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Bars, Rods and Wire

Chemical Composition		
Carbon	C %	0.040 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	8.000 - 10.000
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	19.000 - 21.500
Nickel	Ni %	5.500 - 7.500
Molybdenum	Mo %	0.750 max.
Nitrogen	N %	0.150 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	620 - 900
Proof Strength in Mpa	345 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HBW	300 max.
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S21980	UNS	USA	Steel
X 2 CrMnNiN 20-9-7	DIN	Germany	Steel
1.4454	DIN	Germany	Steel
5561	AMS	USA	Steel and Tubing
5595	AMS	USA	Plate, Sheet and Strip
AMS 5561	SAE	USA	Steel and Tubing
AMS 5562	SAE	USA	Steel and Tubing

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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